Approved For Release 2008/12/17 : CIA-RDP78B03824A000600020005-4

CLASSIFIED MESSAGE

TOP SECRET

ROUTING

1		4	
2		5	
3		6	

ORIG : [redacted]
UNIT : NPIC/PSG/R&RD/DAS
EXT : [redacted]
DATE : 31 July 1970

31 JUL 70 21 18

TO : SAC,ACIC,FTD,USAFE,PACAF,ARMY,DIA,NAVY,TOPOCOM,[redacted]
YOKOTA,AHS,544ARTW OFFUTT [redacted] FICEUR,OPCEN
FROM: NPIC

CONF :

INFO : [redacted]

PRECEDENCE				
	DEFERRED	X	PRIORITY	INITIALS RCV
	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

OUT70320

TO [redacted] INFO [redacted] CITE

TOP SECRET. [redacted] CITE NPIC 8959

SUBJECT: CAMERA INFORMATION FOR MISSION 1111-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, DUAL STELLAR CAMERAS AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS

FOCAL LENGHTS(MM)	PAN CAMERAS	PORT HORIZONS	STBD HORIZONS
FWD	609.5416	55.156	55.030
AFT	609.5619	54.981	55.015

FILTERS

PAN FWD	PRIMARY	W-25
PAN FWD	ALTERNATE	W-25
PAN AFT	PRIMARY	W-21
PAN AFT	ALTERNATE	W-21
FWD STBD	HORIZON	W-25
FWD PORT	HORIZON	W-25
AFT STBD	HORIZON	W-25

COORDINATING OFFICERS

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GROUP 1 Excluded from automatic downgrading and declassification

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PRECEDENCE		DEFERRED		PRIORITY	INITIALS
		ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO INFO CITE

AFT PORT HORIZON W-25

APERTURE

STBD HORIZON F/8.0

PORT HORIZON F/6.3

FILM

FWD 3414

AFT 3414

DYNAMIC RESOLUTION

FWD HIGH CONTRAST 285

FWD LOW CONTRAST 185

AFT HIGH CONTRAST 253

AFT LOW CONTRAST 149

UNIT NUMBER FWD 325 AFT 324

B. DISIC UNIT NO. 2R

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TO INFO CITE

	PORT STELLAR	STBD STELLAR	INDEX
FOCAL LENGTHS (MM)	76.126	75.971	76.322
FILTER (WRATTEN)	NONE	NONE	W-12
EXPOSURE (SEC)	1.5	1.5	1/500
FILM	3401	3401	3400

3. LENS DISTORTION (PIN CUSHION) (MM)

A. MAIN UNITS

ANGLE OFF AXIS (DEG)	3	2	1	0	359	358	357
FWD	.002	.001	0	0	0	.002	.003
AFT	.001	0	0	0	0	.002	.005

B. HORIZON CAMERA DISTORTION

	FWD PORT	FWD STBD	AFT PORT	AFT STBD
RADIAL 10 DEG	.0	.01	.005	.01
20 DEG	.03	.03	.03	.05
TANGENTIAL	.012	.012	.025	.018

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS 30 DEG 34MIN 14.69 SEC

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	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

TO INFO CITE

B. DEPRESSION ANGLES BETWEEN HORIZONS AND PAN CAMERAS

FWD PORT	15 DEG	05 MIN	02.38 SEC
FWD STBD	15 DEG	11 MIN	33.09 SEC
AFT PORT	15 DEG	01 MIN	40.21 SEC
AFT STBD	15 DEG	10 MIN	09.69 SEC

C. ANGLES STELLAR AND INDEX CAMERA

STBD STELLAR AND INDEX	100 DEG	01 MIN	46.9182 SEC
PORT STELLAR AND INDEX	99 DEG	56 MIN	22.0301 SEC

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA

PASSES	REF LEVEL	AMP LEVEL
1D,3A THRU 4A,5M 6A THRU 10A	2	11
16A THRU 20A,25D 31A THRU 36A,41D,45D 81A THRU 83A,85D THRU 88D	1	8

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	DEFERRED		PRIORITY	INITIALS
	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO INFO CITE

PASSES	REF LEVEL	AMP LEVEL
47A,52A,52D	2	7
53D THRU 55D,63A,63D, 64A THRU 68A,69M,70D THRU 77D,79A	2	8
94A,94D,95A,97A	1	9

FOR ALL PASSES PRIMARY PERIOD 3548 SECONDS, SECONDARY PERIOD 2622

SECONDARY RAMP FACTOR 0.017450

37. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP	PROGRAM DURATION
					SEC	SEC
1D	23	02	53	51	1819	31
3A	23	05	37	58	888	237
4A1	23	07	07	06	847	228
4A2	23	07	12	01	1143	185
5M	23	08	42	40	1190	392
6A	23	10	11	32	1178	82

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PRECEDENCE		DEFERRED		PRIORITY	INITIALS
		ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO	INFO				CITE	
	PASS	DAY	HR	MIN	SEC	SEC	SEC
	7A	23	11	45	15	1396	103
	10A	23	16	04	52	748	64
	16A	24	01	07	15	848	64
	17A1	24	02	37	21	846	109
	17A2	24	02	41	33	1099	94
	18A1	24	04	08	19	897	123
	18A2	24	04	11	40	1098	132
	19A	24	05	40	28	1021	205
	20A1	24	07	07	51	858	101
	20A2	24	07	13	35	1202	141
	25D	24	15	01	00	2217	152
	31A	24	23	39	24	893	59
	32A	25	01	08	45	848	51
	33A	25	02	42	04	1042	158
	34A	25	04	10	08	922	48
	35A	25	05	39	54	918	133

COORDINATING OFFICERS

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PRECEDENCE		DEFERRED		PRIORITY	INITIALS
		ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO

INFO

CITE

PASS	DAY	HR	MIN	SEC	SEC	SEC
36A1	25	07	09	57	916	53
36A2	25	07	11	48	1028	276
41D	25	15	02	26	2252	147
45D	25	20	58	52	2000	64
47A	25	23	39	40	877	40
52A	26	07	14	11	1144	141
52D	26	07	28	47	2020	68
53D	26	07	01	01	2152	42
54D	26	10	23	59	1731	80
55D	26	11	58	59	2031	39
63A	26	23	35	55	660	181
63D	26	23	59	38	2083	38
64A	27	01	08	23	810	64
65A	27	02	41	02	971	58
66A1	27	04	09	11	862	93
66A2	27	04	12	00	1031	68

COORDINATING OFFICERS

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1		4	
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PRECEDENCE					
		DEFERRED		PRIORITY	INITIALS
		ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO	INFO					CITE	
	PASS	DAY	HR	MIN	SEC	SEC	SEC
	67A	27	05	40	46	961	117
	68A	27	07	14	18	1175	130
	69M	27	08	46	19	1299	222
	69D	27	08	54	41	1801	60
	70D1	27	10	19	58	1519	150
	70D2	27	10	27	27	1969	130
	71D	27	11	55	39	1866	34
	72D1	27	13	26	24	1915	52
	72D2	27	13	30	05	2135	111
	77D	27	20	57	54	2027	46
	79A	27	23	36	37	759	103
	81A1	28	02	36	40	746	47
	81A2	28	02	40	38	984	102
	82A1	28	04	07	36	793	68
	82A2	28	04	11	12	1010	92
	83A	28	05	41	40	1029	129

COORDINATING OFFICERS

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1		4	
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3		6	

PRECEDENCE					
	DEFERRED		PRIORITY	INITIALS	
	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS	

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TO

INFO

CITE

PASS	DAY	HR	MIN	SEC	SEC	SEC
85D1	28	08	52	08	1635	70
85D2	28	08	55	10	1821	64
86D	28	10	26	16	1880	60
88D1	28	13	27	36	1944	46
88D2	28	13	31	23	2171	105
94A	28	22	03	42	468	43
94D	28	22	26	49	1855	39
95A	28	23	37	26	686	69
97A1	29	02	38	30	737	90
97A2	29	02	41	34	922	81
97A3	29	02	44	58	1125	70

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
10	18093.968	57645.8283	----
15	46646.265	86198.1187	.007
26	104616.103	57767.9423	.014

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PRECEDENCE

	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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TO INFO CITE

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
31	133349.600	101.3318	.108
41	185663.967	52415.7844	.010
47	219539.807	86291.6145	.010
57	272016.625	52368.4165	.016
63	305956.759	86308.5397	.011
73	358355.279	52307.0421	.018
79	392335.517	86287.2683	.012
89	444823.405	52375.1372	.019
95	478867.445	19.1643	.013
104	525922.016	47073.7168	.019

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

END OF MESSAGE

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25X1

COORDINATING OFFICERS

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CH/PSG
RELEASING OFFICER

CH/R&RD
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